

Amendment and Response Under 37 C.F.R. §1.116 - Expedited Examining Procedure

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Serial No. 08/892,902

Confirmation No.: 7374

Filed: 14 July 1997

For: MICROPOROUS INKJET RECEPTORS CONTAINING BOTH A PIGMENT MANAGEMENT SYSTEM AND A FLUID MANAGEMENT SYSTEM

pigment management system comprises a multivalent metal salt coating along the surfaces of the porous substrate, wherein the fluid management system comprises a surfactant, and further wherein the size of the pores of the porous membrane is at least 0.2 μm .

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29. (AMENDED) The medium according to Claim 22, wherein the surfactant is selected from the group consisting of fluorocarbon, silicon, hydrocarbon-based surfactants or a mixture thereof.

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30. (AMENDED) The medium according to Claim 22, further comprising an additional surfactant, wherein the additional surfactant is a silicon-based non-ionic surfactant.

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31. (AMENDED) The medium according to Claim 29, wherein the surfactant comprises a hydrocarbon surfactant of a fatty acid.

33. (AMENDED) A method of making an inkjet receptor medium comprising:

- (a) preparing a pigment management system;
- (b) imbibing the pigment management system into pores of a porous membrane of a synthetic polymer, wherein the pigment management system once imbibed into pores of the porous membrane comprises a multivalent metal salt coating along the surfaces of the pores of the porous substrate; and
- (c) imbibing a fluid management system into the pores of the porous membrane wherein the fluid management system comprises a surfactant, and further wherein the size of the pores of the porous membrane is at least 0.2 μm .

39. (AMENDED) An inkjet receptor medium comprising a porous substrate comprising a multivalent metal salt coating and an anionic surfactant in contact with surfaces of pores of the porous substrate, and further comprising a pigmented ink image thereon, wherein the size of the

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pores of the porous substrate are at least 0.2 μm .

47. (AMENDED) The inkjet receptor medium of Claim 46, wherein the size of the pores of the porous substrate is no greater than about 2 μm .

49. (AMENDED) The inkjet receptor medium of Claim 48, wherein the size of the pores of the porous substrate is no greater than about 2 μm .

50. (AMENDED) An inkjet receptor medium comprising:

a thermally induced phase separated microporous membrane of a synthetic polymer having a fluid management system and a pigment management system in contact with the surfaces of pores of the substrate, wherein the pigment management system comprises a multivalent metal salt coating along the surfaces of the microporous substrate, wherein the fluid management system comprises a surfactant, and further wherein the size of the pores of the microporous membrane is at least 0.2 μm .

51. (AMENDED) A method of making an inkjet receptor medium comprising:

- (a) preparing a pigment management system;
- (b) imbibing the pigment management system into pores of a thermally induced phase separated microporous membrane of a synthetic polymer, wherein the pigment management system once imbibed into pores of the microporous membrane comprises a multivalent metal salt coating along the surfaces of the pores of the microporous substrate; and
- (a) imbibing a fluid management system into the pores of the microporous membrane wherein the fluid management system comprises a surfactant, and further wherein the size of the pores of the microporous membrane is at least 0.2 μm .